

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563508

Luminaire Tested: **SQ4-PP3-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563508
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

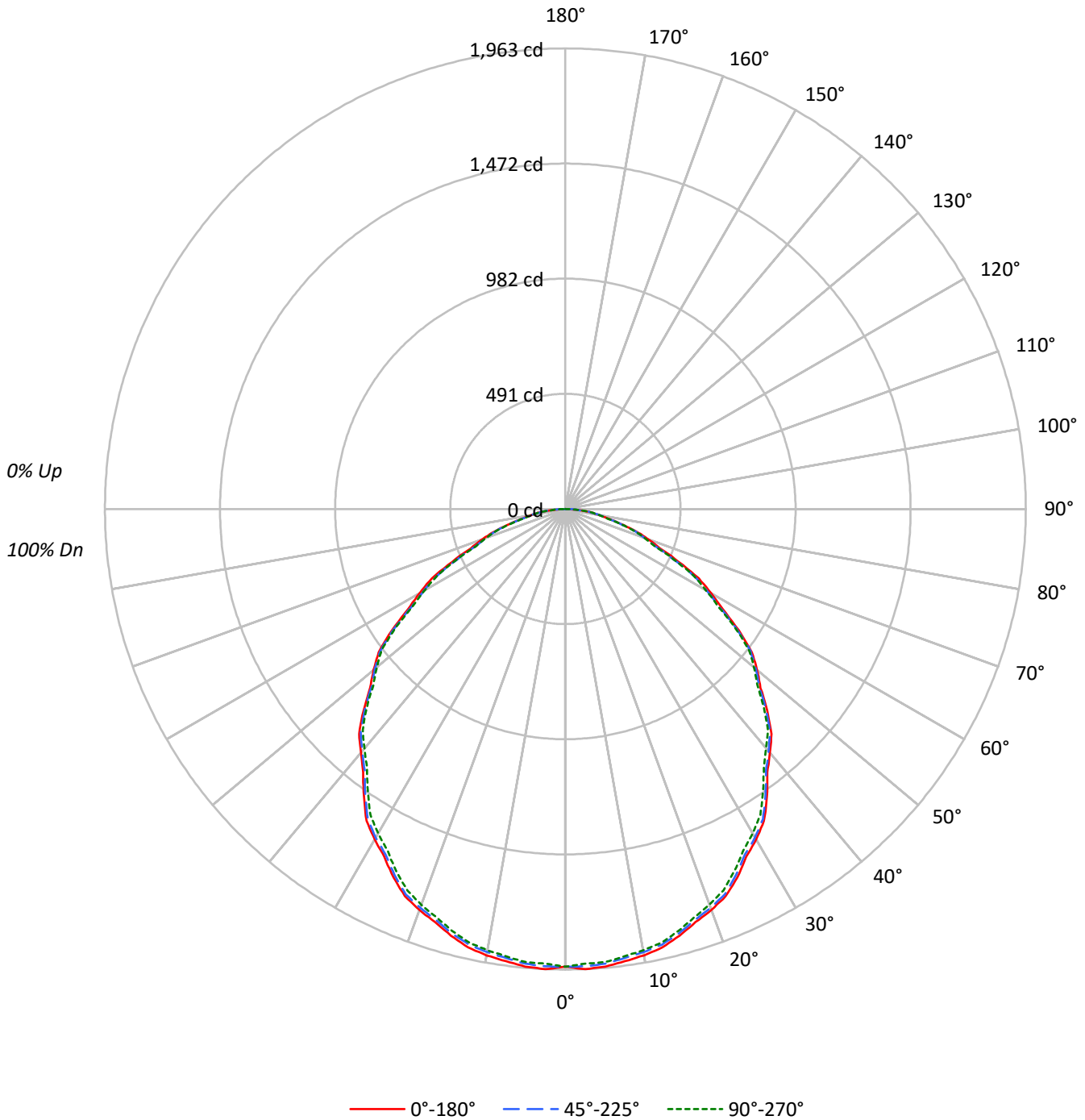
Lumens per Lamp: N/A
Luminaire Lumens: 4992.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7942	7885	7808
50°	7656	7607	7533
55°	7260	7164	7109
60°	6610	6420	6388
65°	5822	5580	5561
70°	5027	4819	4819
75°	4328	4267	4205
80°	3815	3860	3770
85°	2985	3255	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.7
10°-20°	526.7	10.5
20°-30°	788.9	15.8
30°-40°	925.4	18.5
40°-50°	928.3	18.6
50°-60°	791.9	15.9
60°-70°	516.4	10.3
70°-80°	259.1	5.2
80°-90°	71.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1500.1	30.0
0°-40°	2425.5	48.6
0°-60°	4145.6	83.0
0°-90°	4992.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4992.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1958	1939	1946	1939	1939	186
15°	1882	1864	1872	1865	1862	531
25°	1734	1714	1722	1706	1705	797
35°	1498	1483	1487	1470	1469	936
45°	1217	1209	1209	1197	1197	937
55°	903	899	891	886	884	802
65°	533	523	511	508	510	532
75°	243	243	239	238	236	263
85°	56	61	62	62	62	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1963.1	1947.0	1950.7	1947.8	1939.8
5°	1957.6	1939.2	1945.6	1938.8	1938.8
7.5°	1944.3	1924.2	1930.6	1923.7	1923.4
10°	1931.9	1911.9	1918.3	1911.4	1909.7
12.5°	1914.2	1894.1	1901.9	1893.6	1893.3
15°	1882.4	1864.0	1872.1	1865.2	1861.8
17.5°	1846.5	1826.4	1836.2	1826.6	1825.3
20°	1819.1	1799.0	1808.8	1795.2	1795.2
22.5°	1786.3	1766.2	1777.4	1759.6	1759.6
25°	1733.6	1713.6	1721.7	1706.2	1704.6
27.5°	1671.0	1651.3	1659.8	1642.3	1642.0
30°	1625.9	1607.5	1617.4	1598.5	1596.8
32.5°	1576.7	1559.6	1566.8	1547.9	1546.2
35°	1497.7	1482.6	1487.4	1470.3	1468.6
37.5°	1414.6	1399.2	1404.7	1390.0	1389.3
40°	1355.8	1345.7	1347.2	1335.2	1331.8
42.5°	1301.1	1289.7	1291.2	1279.2	1278.5
45°	1217.3	1208.9	1208.7	1196.8	1196.8
47.5°	1128.4	1122.0	1120.2	1110.3	1109.9
50°	1066.8	1061.8	1060.0	1051.4	1049.7
52.5°	1002.6	1000.2	994.4	987.2	986.8
55°	902.7	899.4	890.7	885.6	883.9
57.5°	794.3	787.6	777.9	770.4	771.8
60°	716.4	709.7	695.8	692.4	692.4
62.5°	641.1	633.1	619.2	614.5	617.2
65°	533.4	523.4	511.2	507.8	509.5
67.5°	435.6	426.6	413.4	413.4	412.0
70°	372.7	367.7	357.3	357.3	357.3
72.5°	316.6	314.3	306.7	306.7	305.3
75°	242.8	242.8	239.4	237.6	235.9
77.5°	181.9	182.6	180.9	179.1	176.1
80°	143.6	147.0	145.3	143.6	141.9
82.5°	108.1	111.4	111.1	108.0	107.7
85°	56.4	61.4	61.5	61.5	61.5
87.5°	15.0	20.4	21.9	21.9	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)